

ABSTRACT

[1060] Techniques for segmented CDMA searching are disclosed. In one aspect, a searcher comprises a plurality of storage elements selectable for performing a plurality of segmentable search tasks, each storage element operable for storage of and access to state information for one of the plurality of search tasks. In another aspect, a first search task is interrupted in progress, the state information for the first task is stored, a second search task is performed, and the first search task is continued using the stored state information. In yet another aspect, a search task is segmented into smaller search segments, sized to fit within contiguous available time in the searcher. Various other aspects of the invention are also presented. These aspects have the benefit of circuit area and search-time efficiency which translate into reduced costs, increased standby time, increased acquisition speed, higher quality signal transmission, increased data throughput, decreased power, and improved overall system capacity.